

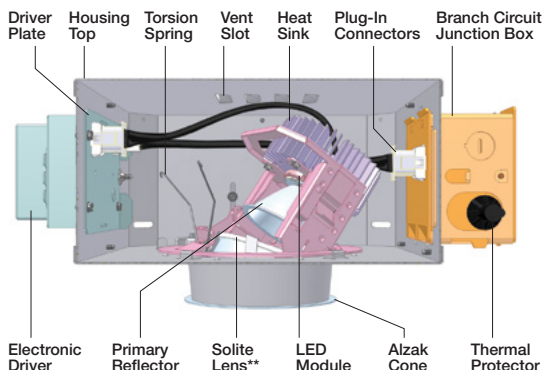


- F2333** Wide 45°
- F2335** Medium 32°
- F2337** Narrow 23°
- F2339** Very Narrow 10°

4 3/8" Round Directional Downlights

OPTICS and APPLICATIONS

This generation of directional downlights optimizes output while controlling glare in both directional and downlight applications. The optical assembly is designed with locking capability to rotate 360° and angulate 35° to accommodate architectural aiming and control. The F2333/2335/2337 are provided standard with a Solite lens. The F2339 is provided standard without a lens and projects over 12,200 candelas in a very narrow 10° beam. Ideal for accentuating art and points of interest.



Driver Plate, Housing Top, Torsion Spring, Vent Slot, Heat Sink, Plug-In Connectors, Branch Circuit Junction Box, Electronic Driver, Primary Reflector, Solite Lens**, LED Module, Alzak Cone, Thermal Protector

** Standard for F2333/2335/2337, optional for F2339.

DESIGN FEATURES - MultiSource® Capable

The shallow housing utilizes rigid steel parts to protect the LED optical components while providing adequate ventilation for passive cooling. Products are designed with MultiSource® plug and play connectors allowing field conversion to other sources. Components are Zhaga compatible to accommodate future source options. Proprietary heat sinks ensure proper temperatures are maintained. The lower cone is keyed to the optical assembly to assure center point alignment at any position. Service from below only. Maximum ceiling thickness 1 1/2".

DRIVERS

Dimming is standard 0-10V/10%. Rated life is 50,000 hours at 70% lumen output.

FINISH

Specular Alzak cones are standard. The SoftSheen™ finish is designed to mitigate color over angle. Softglow® finish and other colors are available.

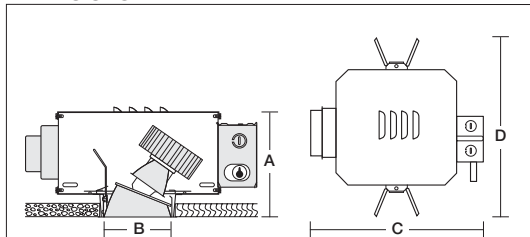
GENERAL

Fixture is pre-wired and thermal protected, CSA certified to US and Canadian safety standards. Approved for eight wire 90°C branch circuit wiring. All lensed fixtures are suitable for wet location under covered ceiling. F2339 is suitable for damp locations when no lens option is selected. All products are union made. Designed and manufactured in the USA.

WARRANTY

5 Year Warranty. See www.kurtversen.com for details or select hyperlink.

DIMENSIONS



Number	A Height	B Aperture	C Width	D Length
F2333	7 3/16"	4 3/8"	16 1/4"	16 1/16"
F2335	183mm	111mm	413mm	408mm
F2337				
F2339				
F2333	7 3/16"	4 3/8"	16 1/4"	16 1/16"
F2335	183mm	111mm	413mm	408mm
F2337				

*Open housing top construction

ENERGY INFORMATION

Fixture	Source Lumens	Xicato XTM, 80 CRI			Cree, 80 CRI		
		Delivered Lumens	System Watts	lm/W	Delivered Lumens	System Watts	lm/W
F2333	1100	715	12	55.0	665	11.6	57.3
	1500	981	17	58.0	1003	16.6	60.4
	2100	1383	24	58.0	1373	22.4	61.3
	2800	1819	33	55.0	1743	27.6	63.2
F2335	1100	754	12	61.0	620	11.6	53.4
	1500	1030	17	61.0	935	16.6	56.3
	2100	1480	24	62.0	1280	22.4	57.2
	2800	1875	33	57.0	1625	27.6	58.9
F2337	1100	847	12	68.0	618	11.6	53.2
	1500	1160	17	68.0	931	16.6	56.1
	2100	1651	24	69.0	1276	22.4	56.9
	2800	2129	33	65.0	1619	27.6	58.7
F2339	1100	390	18.1	21.5			
	1500	521	25.2	20.7			

*Data recorded at nadir.

ORDERING GUIDE

Base Specification (required)	Options (optional)
Example: F2335-213012D	

Model	Source Lumens	Kelvin	Volts	Dimming	CRI	Cone Finish	Cone Color	Cone Paint	Cone Style	Factory Settings	Lens Options	Flush Mount	Fuse	EM	Support Rails
F2333	11 1100	27 2700K	12 120V	D Standard 0-10V, to 10%.	Standard 80 CRI	Standard Specular clear	Standard clear	Standard clear	Standard with bias cut directional cone.	Standard adjustable	For F2333/35/37: Standard Solite Clear	Standard with flange	F ⁵ Fuse.	REM Remote EM. Includes battery pack, charger light, test switch for 90 minutes. Remote mount only. Ceiling access required.	R2 26" R5 52"
F2335	15 1500	30 3000K	27 277V	DM1 0-10V to 1%.	90 90 CRI	SS SoftSheen™	B Black	WT White	Standard with bias cut directional cone.	DP Fixed Downlight Position.	For F2339: Standard Open Cone	FMR4 Flush mount drywall.			Products designated FMR4 provided with FMBKT
F2337	21 2100	35 3500K		D1 Hi-lume 1% 3-wire LED driver.	XTM 83 CRI	S Softglow®	G Gold	WT White	STC Straight top cone.		SO ⁶ Solite Clear Lens				
F2339	28 2800	40 4000K		DE Hi-lume 1% EcoSystem LED driver	AS ² 98 CRI		W Wheat	WHT White Cone, complete.			SOFR Solite lens frosted.				
				DM01 0-10V to .1%.	VS ⁸ Vibrant 83 CRI		Y Pewter	BT Black Flange.			LL Linear lens.				
				DAL1 to 1%.	VS ⁹ Vibrant 95 CRI						LLFR Linear lens frosted.				
				DMX DMX Enabled.							LS Clear lens				
											LSFR Clear lens				

OPTION NOTES

- Not available with F2339.
- Xicato® Artist Series™ 98 +/-3 CRI module up to 2800 lm. Contact factory for energy information.
- Xicato® Vibrant Series™, 83 CRI, 3000K only. Contact factory for energy information.
- Xicato® Vibrant Series™, 95 CRI up to 2800 lm, 3000K only. Contact factory for energy information.
- Not available with REM option.
- Add SO only for F2339.

Rev Date 07/24/19



HUBBELL Lighting



Available for Velocity Quick Ship Program

F2333 Wide 45°

Cut out dimensions: 5" for 7/8" ceiling. Outer flange dimension: 5 1/4".

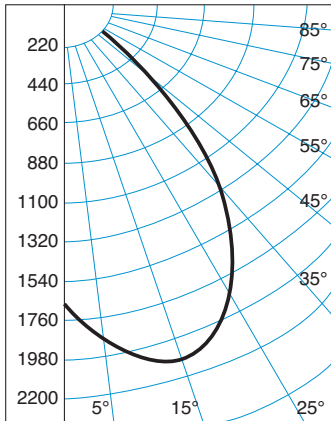
Performance Datachart

Distance	5'				8'				10'				12'			
	Nadir	10°	20°		Nadir	10°	20°		Nadir	10°	20°		Nadir	10°	20°	
Source	FC	FC Diam	FC Diam		FC	FC Diam	FC Diam		FC	FC Diam	FC Diam		FC	FC Diam	FC Diam	
F2333 2100 lm 3000K	84	72 2'	44 4'		33	28 3'	17 6'		21	18 4'	11 7'		15	12 4'	8 9'	
F2333 2800 lm 3000K	111	98 2'	57 4'		43	38 3'	22 6'		28	24 4'	14 7'		19	17 4'	10 9'	

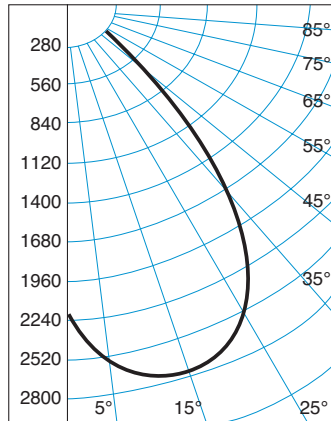
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane					Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane				
F2333 Xicato® 2100 lm 3000K Read Top Data									Ceiling 80% Walls 50% Floor 20%				
F2333 Xicato® 2800 lm 3000K Read Bottom Data									Spacing is Maximum Over Work Plane				
Nadir	10°	20°	30°		Spacing	RCR 1	RCR 3	RCR 8					
FC	FC Diam	FC Diam	FC Diam										
55	48 2'	36 4'	17 6'	8'	5'	55	48	36	8'	5'	55	48	36
72	62 2'	48 4'	23 6'		5'	69	61	45					
39	34 2'	26 5'	12 8'	9'	6'	39	34	26	9'	6'	39	34	26
51	44 2'	34 5'	16 8'		6'	50	43	32					
30	26 3'	20 5'	9 9'	10'	7'	30	26	19	10'	7'	30	26	19
39	33 3'	26 5'	12 9'		7'	37	33	24					
23	20 3'	15 6'	7 10'	11'	8'	23	20	15	11'	8'	23	20	15
30	26 3'	20 6'	10 10'		8'	29	25	19					
18	16 3'	12 7'	6 11'	12'	9'	18	16	12	12'	9'	18	16	12
24	21 3'	16 7'	8 11'		9'	23	20	15					

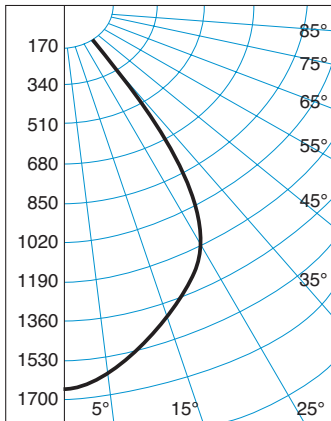
Candlepower Distribution



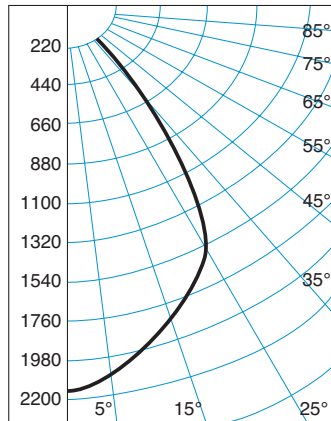
F2333 Xicato® 2100 lm 3000K
15° Tilt
Luminous efficacy 55.0 S/M .76



F2333 Xicato® 2800 lm 3000K
15° Tilt
Luminous efficacy 52.0 S/M .74



F2333 Xicato® 2100 lm 3000K
Luminous efficacy 58.0 S/M .96



F2333 Xicato® 2800 lm 3000K
Luminous efficacy 55.0 S/M .98

Candelas

°	24W	33W
	1328*	1722*
0	2112	2775
5	2048	2724
10	1880	2555
15	1643	2185
20	1316	1706
25	935	1174
30	575	720
35	295	358
40	139	174
45	49	68
50	17	24
55	7	10
60	5	6
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

Notes

- Photometric Reports:
F2333 2100 lm 15° Tilt
KV Report No. 82114-B,
2800 lm 15° Tilt KV Report No. 82014,
2100 lm KV Report No. 81814-A,
2800 lm KV Report No. 81914-D,
- Specular colored cone multipliers,
contact factory.
- SoftSheen™ cone multiplier and
Softglow® cone multiplier, contact
factory.
- Single unit Datachart pattern
diameters are determined by the
number of degrees from each side
of nadir. Therefore a 15° diameter
represents a total 30° pattern width
at the work plane. Footcandle values
are at the edge of that diameter.
- The luminous efficacy (lm/W) refers
to the total measured luminous flux
(lumens) of the fixture divided by the
total measured electrical input power
(watts) of the complete fixture.

°	24W	33W
	1383*	1819*
0	1664	2173
5	1611	2101
10	1505	1959
15	1405	1836
20	1329	1744
25	1176	1556
30	813	1068
35	429	568
40	138	188
45	24	34
50	8	10
55	5	6
60	4	5
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

F2335 Medium 32°

Cut out dimensions: 5" for 7/8" ceiling. Outer flange dimension: 5 1/4".

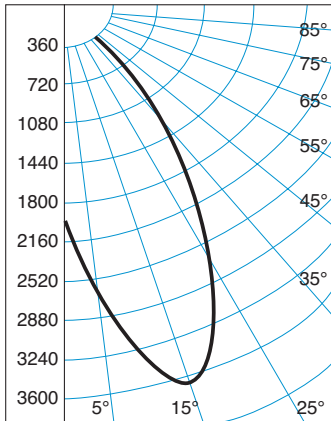
Performance Datachart

Distance	5'				8'				10'				12'				
	Nadir	10°	20°	30°	Nadir	10°	20°	30°	Nadir	10°	20°	30°	Nadir	10°	20°	30°	
Source	FC	FC	Diam	FC	Diam	FC	Diam	FC	Diam	FC	Diam	FC	Diam	FC	Diam	FC	Diam
F2335 2100 lm 3000K	145	100	2'	43	4'	57	3'	17	6'	36	25	4'	11	7'	25	17	4'
F2335 2800 lm 3000K	188	132	2'	56	4'	74	3'	22	6'	47	33	4'	14	7'	33	23	4'

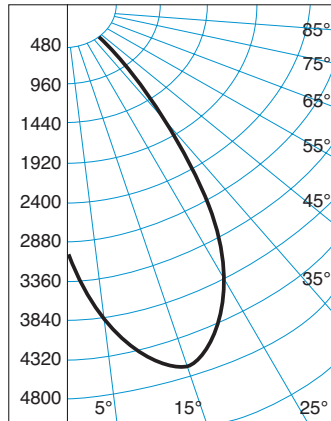
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane			
F2335 Xicato® 2100 lm 3000K Read Top Data								Ceiling 80% Walls 50% Floor 20%			
F2335 Xicato® 2800 lm 3000K Read Bottom Data								Spacing is Maximum Over Work Plane			
Nadir	10°	20°	30°					Spacing	RCR 1	RCR 3	RCR 8
FC	FC	Diam	FC	Diam	FC	Diam					
73	49	3'	22	5'	4	9'	10'	4'	118	106	84
95	62	3'	28	5'	5	9'		4'	149	135	107
46	30	3'	14	7'	3	11'	12'	5'	73	66	52
59	38	3'	17	7'	3	11'		5'	93	84	66
31	21	4'	9	8'	2	13'	14'	6'	50	45	36
40	26	4'	12	8'	2	13'		6'	64	57	45
23	15	5'	7	10'	1	16'	16'	7'	36	33	26
29	19	5'	9	10'	2	16'		7'	46	42	33
17	11	5'	5	11'	1	18'	18'	8'	28	25	20
22	14	5'	7	11'	1	18'		8'	35	32	25

Candlepower Distribution



F2335 Xicato® 2100 lm 3000K
15° Tilt
Luminous efficacy 55.0 S/M .52



F2335 Xicato® 2800 lm 3000K
15° Tilt
Luminous efficacy 53.0 S/M .54

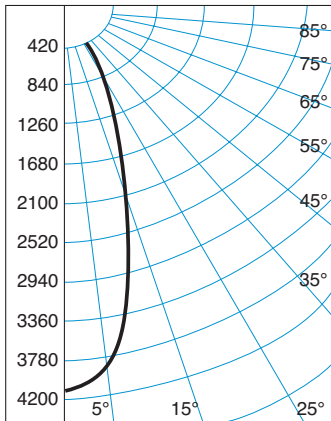
Candelas

°	24W	33W
	1312*	1737*
0	3630	4707
5	3315	4333
10	2620	3445
15	1920	2536
20	1282	1696
25	748	1002
30	351	473
35	138	189
40	55	74
45	20	27
50	10	13
55	6	8
60	5	6
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

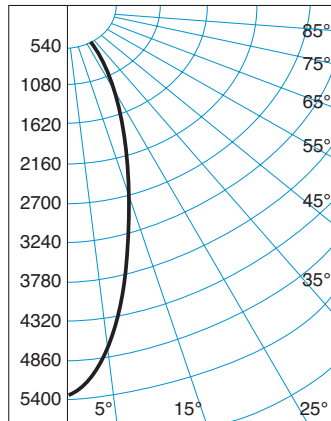
°Vertical Angles
*Luminaire Lumens

Notes

- Photometric Reports:
F2335 2100 lm 15° Tilt
KV Report No. 82014-A,
2800 lm 15° Tilt KV Report No. 82014-A,
2100 lm KV Report No. 81914,
2800 lm KV Report No. 81914-A,
- Specular colored cone multipliers,
contact factory.
- SoftSheen™ cone multiplier and
Softglow® cone multiplier, contact
factory.
- Single unit Datachart pattern
diameters are determined by the
number of degrees from each side
of nadir. Therefore a 15° diameter
represents a total 30° pattern width
at the work plane. Footcandle values
are at the edge of that diameter.
- The luminous efficacy (lm/W) refers to
the total measured luminous flux
(lumens) of the fixture divided by the
total measured electrical input power
(watts) of the complete fixture.



F2335 Xicato® 2100 lm 3000K
Luminous efficacy 62.0 S/M .50



F2335 Xicato® 2800 lm 3000K
Luminous efficacy 57.0 S/M .50

°	24W	33W
	1480*	1875*
0	4120	5317
5	3728	4720
10	2879	3625
15	2105	2650
20	1497	1899
25	957	1224
30	376	475
35	113	145
40	59	75
45	25	32
50	12	15
55	6	8
60	4	5
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

F2337 Narrow 23°

Cut out dimensions: 5" for 7/8" ceiling. Outer flange dimension: 5 1/4".

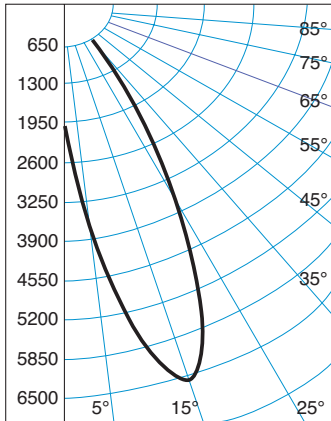
Performance Datachart

Distance	8'				10'				12'				14'			
	Nadir	10°	20°		Nadir	10°	20°		Nadir	10°	20°		Nadir	10°	20°	
Source	FC	FC Diam	FC Diam		FC	FC Diam	FC Diam		FC	FC Diam	FC Diam		FC	FC Diam	FC Diam	
F2337 2100 lm 3000K	102	56 3'	14 6'		65	36 4'	9 7'		45	25 4'	6 9'		33	18 5'	5 10'	
F2337 2800 lm 3000K	136	72 3'	18 6'		87	46 4'	12 7'		60	32 4'	8 9'		44	24 5'	6 10'	

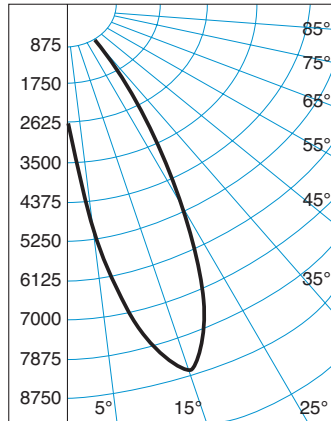
Performance Datachart

Single Unit Initial Footcandles, 30" Work Plane				Ceiling to Floor				Multiple Units Initial Footcandles, 30" Work Plane			
F2337 Xicato® 2100 lm 3000K Read Top Data								Ceiling 80% Walls 50% Floor 20%			
F2337 Xicato® 2800 lm 3000K Read Bottom Data								Spacing is Maximum Over Work Plane			
Nadir	10°	15°	20°					Spacing	RCR 1	RCR 3	RCR 8
FC	FC Diam	FC Diam	FC Diam								
81	42 3'	22 5'	13 7'	12'				4'	143	129	108
104	55 3'	29 5'	16 7'					4'	185	167	139
55	29 4'	15 6'	9 8'	14'				4'	98	88	73
71	38 4'	20 6'	11 8'					4'	126	114	95
40	21 5'	11 7'	6 10'	16'				5'	71	64	53
51	27 5'	14 7'	8 10'					5'	91	83	69
30	16 5'	8 8'	5 11'	18'				6'	54	49	40
39	21 5'	11 8'	6 11'					6'	69	63	52
24	12 6'	7 9'	4 13'	20'				7'	42	38	32
31	16 6'	9 9'	5 13'					7'	54	49	41

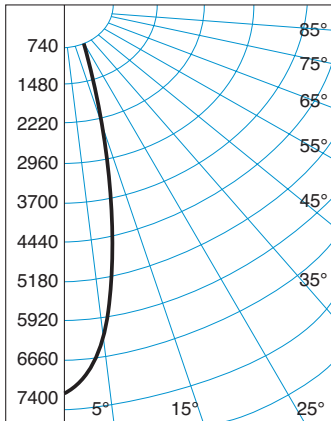
Candlepower Distribution



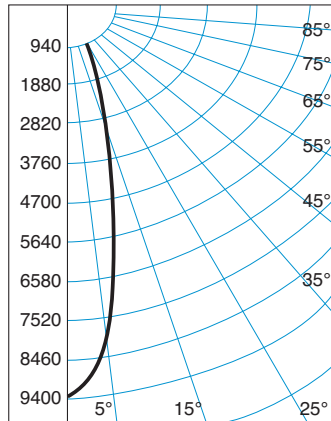
F2337 Xicato® 2100 lm 3000K
15° Tilt
Luminous efficacy 61.0 S/M .40



F2337 Xicato® 2800 lm 3000K
15° Tilt
Luminous efficacy 57.0 S/M .38



F2337 Xicato® 2100 lm 3000K
Luminous efficacy 69.0 S/M .38



F2337 Xicato® 2800 lm 3000K
Luminous efficacy 65.0 S/M .38

Candelas

°	24W	33W
	1471*	1887*
0	6533	8673
5	5705	7493
10	3767	4847
15	2093	2640
20	1107	1387
25	584	730
30	261	332
35	88	122
40	32	46
45	12	16
50	8	10
55	6	7
60	4	6
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

Notes

- Photometric Reports:
F2337 2100 lm 15° Tilt
KV Report No. 82114,
2800 lm 15° Tilt KV Report No. 82014-B,
2100 lm KV Report No. 81814,
2800 lm KV Report No. 81914-C,
- Specular colored cone multipliers,
contact factory.
- SoftSheen™ cone multiplier and
Softglow® cone multiplier, contact
factory.
- Single unit Datachart pattern
diameters are determined by the
number of degrees from each side
of nadir. Therefore a 15° diameter
represents a total 30° pattern width
at the work plane. Footcandle values
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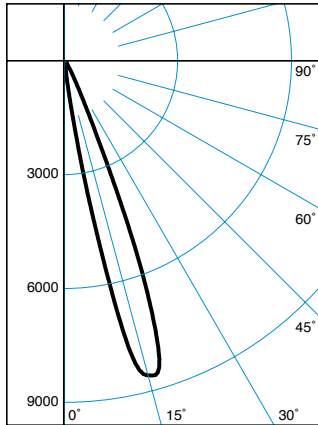
°	24W	33W
	1651*	2129*
0	7312	9370
5	6268	8082
10	3988	5195
15	2250	2913
20	1382	1774
25	810	1046
30	272	345
35	57	71
40	32	40
45	15	18
50	11	13
55	7	9
60	5	5
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

°Vertical Angles
*Luminaire Lumens

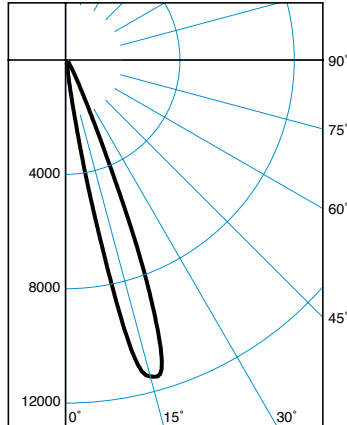
F2339 Very Narrow 10°

Cut out dimensions: 5" for 7/8" ceiling. Outer flange dimension: 5 1/4".

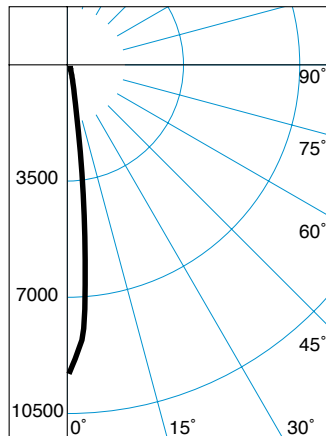
Candlepower Distribution



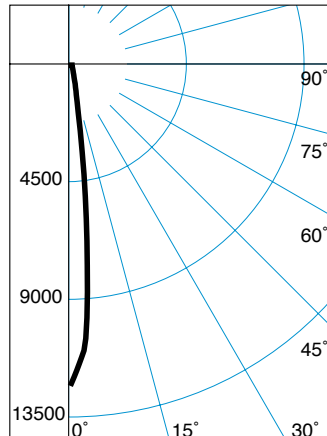
F2339 Xicato® 1100 lm 3000K
15° Tilt
Luminous efficacy 20.6 S/M 0.2



F2339 Xicato® 1500 lm 3000K
15° Tilt
Luminous efficacy 19.8 S/M 0.2



F2339 Xicato® 1100 lm 3000K
Luminous efficacy 21.5 S/M 0.2



F2339 Xicato® 1500 lm 3000K
Luminous efficacy 20.7 S/M 0.2

Candelas

°	18W	25W
	373*	499*
0	110	147
5	541	721
10	4140	5429
15	8580	11460
20	5883	7880
25	922	1234
30	127	170
35	27	35
40	12	16
45	4	5
50	1	1
55	0	0
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles
*Luminaire Lumens

°	18W	25W
	390*	521*
0	9147	12212
5	5110	6794
10	676	914
15	122	167
20	32	44
25	15	20
30	9	12
35	3	4
40	1	1
45	0	0
50	0	0
55	0	0
60	0	0
65	0	0
70	0	0
75	0	0
80	0	0
85	0	0
90	0	0

° Vertical Angles
*Luminaire Lumens

Notes

- Photometric Reports:
F2339 1100 lm 15° Tilt
KV Report No. 17.01863,
1500 lm 15° Tilt KV Report No. 17.01864,
1100 lm KV Report No. 17.01586,
1500 lm KV Report No. 17.01588,
- Specular colored cone multipliers,
contact factory.
- SoftSheen™ cone multiplier and
Softglow® cone multiplier, contact factory.
- Single unit Datachart pattern
diameters are determined by the
number of degrees from each side
of nadir. Therefore a 15° diameter
represents a total 30° pattern width
at the work plane. Footcandle values
are at the edge of that diameter.
- The luminous efficacy (lm/W) refers to
the total measured luminous flux
(lumens) of the fixture divided by the
total measured electrical input power
(watts) of the complete fixture.